

Christian Schäfer

List of Publications by Year in descending order

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15
papers

1,185
citations

567281

15
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

781
citing authors

#	ARTICLE	IF	CITATIONS
1	Octopus, a computational framework for exploring light-driven phenomena and quantum dynamics in extended and finite systems. <i>Journal of Chemical Physics</i> , 2020, 152, 124119.	3.0	210
2	Modification of excitation and charge transfer in cavity quantum-electrodynamical chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4883-4892.	7.1	138
3	<i>Ab initio</i> nonrelativistic quantum electrodynamics: Bridging quantum chemistry and quantum optics from weak to strong coupling. <i>Physical Review A</i> , 2018, 98, .	2.5	126
4	Engineering quantum materials with chiral optical cavities. <i>Nature Materials</i> , 2021, 20, 438-442.	27.5	120
5	Relevance of the Quadratic Diamagnetic and Self-Polarization Terms in Cavity Quantum Electrodynamics. <i>ACS Photonics</i> , 2020, 7, 975-990.	6.6	105
6	Ab Initio Optimized Effective Potentials for Real Molecules in Optical Cavities: Photon Contributions to the Molecular Ground State. <i>ACS Photonics</i> , 2018, 5, 992-1005.	6.6	96
7	Intermolecular interactions in optical cavities: An <i>ab initio</i> QED study. <i>Journal of Chemical Physics</i> , 2021, 154, 094113.	3.0	81
8	Polaritonic Chemistry: Collective Strong Coupling Implies Strong Local Modification of Chemical Properties. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 508-516.	4.6	65
9	The ferroelectric photo ground state of SrTiO ₃ : Cavity materials engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	49
10	Making <i>ab initio</i> QED functional(s): Nonperturbative and photon-free effective frameworks for strong light-matter coupling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	42
11	A perspective on <i>ab initio</i> modeling of polaritonic chemistry: The role of non-equilibrium effects and quantum collectivity. <i>Journal of Chemical Physics</i> , 2022, 156, .	3.0	39
12	Benchmarking semiclassical and perturbative methods for real-time simulations of cavity-bound emission and interference. <i>Journal of Chemical Physics</i> , 2019, 151, 244113.	3.0	37
13	Capturing vacuum fluctuations and photon correlations in cavity quantum electrodynamics with multitrajjectory Ehrenfest dynamics. <i>Physical Review A</i> , 2019, 99, .	2.5	33
14	Quantum paraelectric phase of SrTiO ₃ from first principles. <i>Physical Review B</i> , 2021, 104, .	10.2	22
15	Shortcut to Self-Consistent Light-Matter Interaction and Realistic Spectra from First Principles. <i>Physical Review Letters</i> , 2022, 128, 156402.	7.8	22